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- (74) Agent: FISHER ADAMS KELLY; Level 13 AMP Place,
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- (71) Applicant (for all designated States except US): **CBIO LIMITED** [AU/AU]; 17 Wakefield Street, Alderley, Queensland 4051 (AU).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **JOHNSON, Barbara Jane** [AU/AU]; 10 Villosa Street, Shailer Park, Queensland 4128 (AU). **SUHRBIER, Andreas** [DE/AU]; 185 Mailmans Track, Bunya, Queensland 4055 (AU). **NAYLOR, Dean Jason** [AU/AU]; 9 Burlington Street, East Brisbane, Queensland 4169 (AU). **DOBBIN, Caroline Amanda** [AU/AU]; 17 Winona Street, Daisy Hill, Queensland 4128 (AU). **HOWARD, Christopher Bruce** [AU/AU]; 15 Landsborough Street, Rochedale, Queensland 4123 (AU).
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(54) Title: CHAPERONIN 10 MODULATION OF TOLL-LIKE RECEPTOR-INDUCIBLE CYTOKINE AND CHEMOKINE SECRETION

(57) Abstract: Methods of use of Chaperonin 10 (Cpn10) are provided for regulating Toll-like receptor signaling and/or Toll-like receptor inducible immunomodulator secretion. Cpn10 negatively regulates Toll-like receptor agonist-induced pro-inflammatory cytokine and chemokine secretion, examples being IL-6 and RANTES, respectively. Cpn10 positively regulates Toll-like receptor agonist-induced anti-inflammatory cytokine and chemokine secretion, an example being IL-10. These immunoregulatory activities of Cpn10 may be useful in the treatment of diseases, disorders and conditions resulting from excessive pro-inflammatory cytokine and chemokine secretion. This invention also relates to producing, designing and/or screening Cpn10 agonists and antagonists according to their ability to regulate Toll-like receptor signaling and/or Toll-like receptor inducible immunomodulator secretion.



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